STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/587,193_

Source: _JFWP_

Date Processed by STIC: _08/09/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
      http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWP

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: US/10/587,193   TIME: 09:40:34

Input Set : **N:\SSLM\10587193.txt**
Output Set: **N:\CRF4\08092006\J587193.raw**

```
   3 <110> APPLICANT: Japan Science and Technology Agency
   5 <120> TITLE OF INVENTION: Genetic markers that link to genes associated with Fusarium
head blight
   6        resistance, and use thereof
   8 <130> FILE REFERENCE: A181-09PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/587,193
C--> 10 <141> CURRENT FILING DATE: 2006-07-24
  10 <150> PRIOR APPLICATION NUMBER: JP 2004-014839
  11 <151> PRIOR FILING DATE: 2004-01-22
  13 <150> PRIOR APPLICATION NUMBER: JP 2004-270268
  14 <151> PRIOR FILING DATE: 2004-09-16
  16 <160> NUMBER OF SEQ ID NOS: 56
  18 <170> SOFTWARE: PatentIn Ver. 2.1
```

**Does Not Comply
Corrected Diskette Needed**

Cpg-1,2)

ERRORED SEQUENCES

```
  135 <210> SEQ ID NO: 10
  136 <211> LENGTH: 335
  137 <212> TYPE: DNA
  138 <213> ORGANISM: Hordeum vulgare
  140 <400> SEQUENCE: 10
  141 ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
  142 gttgtcacct caccatggat tgtggtctcc atcaaaagtt atttgtgaga gtttcatctc 120
  143 tgcagatctg gtggttgact ttggtggcat gatcataact atggacggag tcttgatccg 180
E--> 144 gagggatggt tgtgcgccaa cgaaggtcac attgcatgta attgttcnga tcacggaaga 240
  145 gtgatggcga aaacacatga gtgacttcaa tggtggtgtt acttcagtat ccggtatcaa 300
E--> 146 gcttcanggc aaaagcctac gtcccaccaa agttg 335
  149 <210> SEQ ID NO: 11
  150 <211> LENGTH: 335
  151 <212> TYPE: DNA
  152 <213> ORGANISM: Hordeum vulgare
  154 <400> SEQUENCE: 11
  155 ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
  156 gttgtcacct caccatggat tgtggtctcc atcaaaagtt atttgtgaga gtttcatctc 120
  157 tgcagatctg gtggttgact ttggtggcat gatcataact atggacggag tcttgatccg 180
E--> 158 gagggatggt tgtgcggcaa cgaaggtcac attgcatgta attgttcnga tcacggaaga 240
  159 gtgatggcga aaacacatga gtgacttcaa tggtggtgtt acttcagtat ccggtatcaa 300
E--> 160 gcttcanggc aaaagcctac gtcccaccaa agttg 335
  163 <210> SEQ ID NO: 12
  164 <211> LENGTH: 254
  165 <212> TYPE: DNA
  166 <213> ORGANISM: Hordeum vulgare
  168 <400> SEQUENCE: 12
```

*> Pls explain
'n' locations:
see pg-3 for
Error Explanation*

same

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: US/10/587,193 TIME: 09:40:34

Input Set : **N:\SSLM\10587193.txt**
Output Set: **N:\CRF4\08092006\J587193.raw**

```
        169 ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
        170 gttgtcacct caccatggat tgtggtctcc atcaaaagtt atttgtgaga gtttcatctc 120
        171 tgcagatctg gtggttgact ttggtggcat gatcataact atggacggag tcttgatccg 180
E-->    172 gagggatggt tgtgcgccaa cgaaggtcac attgcatgta attgttcnga tcacggaaga 240
        173 gtgatggcga aaac                                                  254
        176 <210> SEQ ID NO: 13
        177 <211> LENGTH: 254
        178 <212> TYPE: DNA
        179 <213> ORGANISM: Hordeum vulgare
        181 <400> SEQUENCE: 13
        182 ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
        183 gttgtcacct caccatggat tgtggtctcc atcaaaagtt atttgtgaga gtttcatctc 120
        184 tgcagatctg gtggttgact ttggtggcat gatcataact atggacggag tcttgatccg 180
E-->    185 gagggatggt tgtgcggcaa cgaaggtcac attgcatgta attgttcnga tcacggaaga 240
        186 gtgatggcga aaac                                                  254
```

[handwritten annotations: "same Error" pointing to line 172 region; "same Error" pointing to line 185 region]

[handwritten note in oval:] The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VARIABLE LOCATION SUMMARY   DATE: 08/09/2006
PATENT APPLICATION: US/10/587,193   TIME: 09:40:35

Input Set : N:\SSLM\10587193.txt
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Error Explanation

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:10; N Pos. 228,307
Seq#:11; N Pos. 228,307
Seq#:12; N Pos. 228
Seq#:13; N Pos. 228
Seq#:48; N Pos. 7,17,29,47,98
Seq#:49; N Pos. 35,37
Seq#:50; N Pos. 19
Seq#:56; N Pos. 41

VERIFICATION SUMMARY   DATE: 08/09/2006
PATENT APPLICATION: US/10/587,193   TIME: 09:40:35

Input Set : **N:\SSLM\10587193.txt**
Output Set: **N:\CRF4\08092006\J587193.raw**

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:144 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
M:340 Repeated in SeqNo=10
L:158 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
M:340 Repeated in SeqNo=11
L:172 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:185 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
L:637 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:641 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:645 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:649 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:653 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:657 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:48
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
M:341 Repeated in SeqNo=48
L:670 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:674 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:678 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:49
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:691 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:50
L:695 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:50
L:695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:761 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:56
L:765 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:56
L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
```